
ABSTRACT

5 This invention provides an anti-crash safe seat in a motor vehicle, in which a backrest and so on are provided on a moveable bracket that can move backwards. A front shaft with bearings, a back shaft with bearings, and a seat control system for controlling the seat by taking use of the inertia force and electromagnetic force are provided on the moveable bracket. The moveable bracket is mounted on a fixed frame by the bearings, shafts and nuts. The fixed frame is fixed on a floor of a cab of a motor vehicle and has energy-absorbing plate, energy-absorbing bearings and two rails parallel each other thereon. When the motor vehicle is collided, the energy-absorbing components in the seat absorb and transform the kinetic energy of the seat. The seat control system is actuated by the switch, so as to release the seat being locked. Under the elastic force of the safety belt and so on, a driver and/or a passenger and the seat can move backwards to the safety zone together. So the aim for protecting the driver and/or passenger from being crushed is achieve.